

Tier 2 Site Cleanup Report Leaking Underground Storage Tank Site Assessment for the lowa Department of Natural Resources

SITE IDENTIFICATION

	SIIL	IDENTIFICATION				
LUST No.	U	ST Registration No.				
Site Name:						
Site Address:						
City:						
	RESPONSIBLE	PARTY IDENTIFICAT	ION			
Name:						
Street:						
City:		State:	Zip Code):		
Classification:	[] High Risk [] Low Risk	[] No Action Required	d			
Recommend:	[] Tier 3 [] Corrective Action	Is this a revised Ti	er 2 SCR?	[] Yes [] N	No	
documents and in LUST No135.10(11) and n	ne Department of Natural Resonformation I have prepared and re, I certify that this dineets the applicable requirements Phone # of Certified Groundwater Profession	eviewed regarding this site, locument is complete and of the Tier 2 Site Cleanup F	JST Registr accurate a	ation No.	,	
		Signature:				
		Phone: Date (Sent/Given to Respon				
	e reviewed this document, appenes. To the best of my knowledge,				it of	
Print Name of Respon	sible Party	Signature - Responsible Par	ty Dat	e (Sent/Given to IDNR)	_	
Official IDNR Use Only						
Date Receiv	ed:	Comment Letter Date:				
Review	rer:	Approved:) Y] N[]		

TIER 2 REPORT CHECKLIST

☐ Printed from the software

IJ	Report Cover Sheet. Signed by certified groundwater professional and responsible party	1
[]	Tier 2 Report Checklist	2
Su	mmary Sheets:	
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Re	port Body:	
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[]	Free Product	16
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[]	☐ Monitoring Plan	21

☐ Pathway Assessment Attachments:

Groundwater Pathways: If a receptor type must be evaluated, check the box at the left and include the Receptor ID (Identification) Map. If any potential or actual receptors are identified by the Receptor ID Map, the Receptor Evaluation Map (for each applicable chemical for each receptor) and SSTL Table (for each receptor) must be provided in the corresponding appendix. Check the boxes in the table for those items attached.

Pathway	Receptor Evaluation Map						SSTL	
	ID Map	В	Т	Е	X	D	WO	Tables
[] 1a. GW Ingestion - Drinking Water Wells								
[] 1b. GW Ingestion - Nondrinking Water Wells								
[] 2. GW Ingestion - Protected GW Source								
[] 3a. GW Vapor - Confined Space Residential								
[] 3b. GW Vapor - Confined Space Nonresidential								
[] 4. GW Vapor - Potential Confined Space								
[] 5a. GW Vapor - Sanitary Sewer Residential								
[] 5b. GW Vapor - Sanitary Sewer Nonresidential								
[] 6. GW Vapor - Potential Sanitary Sewer								
[] 7. GW to Plastic Water Line								
[] 8. Surface Water								

Soil Leaching Pathways: Check the box at the left if this receptor type must be evaluated. The Receptor ID (Identification) Map and Soil SSTL Table (for each receptor) must be provided in the corresponding appendix.

Pathway	Receptor ID Map	Soil SSTL Table
[] 9-1a. Soil Leaching to GW Ingestion - Drinking Water Wells		
[] 9-1b. Soil Leaching to GW Ingestion - Nondrinking Water Wells		
[] 9-2. Soil Leaching to GW Ingestion - Protected GW Source		
[] 9-3a. Soil Leaching to GW Vapor - Confined Space Residential		
[] 9-3b. Soil Leaching to GW Vapor - Confined Space Nonresidential		
[] 9-4. Soil Leaching to GW Vapor - Potential Confined Space		
[] 9-5a. Soil Leaching to GW Vapor - Sanitary Sewer Residential		
[] 9-5b. Soil Leaching to GW Vapor - Sanitary Sewer Nonresidential		
[] 9-6. Soil Leaching to GW Vapor - Potential Sanitary Sewer		
[] 9-7. Soil Leaching to GW to Plastic Water Line		
[] 9-8. Soil Leaching to Surface Water		

[] 10. ☐ Soil Vapor to Enclosed Sp the Soil Vapor Map.	ace. If this p	athway must	be ev	aluated,	check the b	ox at the left a	and provide
[] 11. ☐ Soil to Plastic Water Line. Soil to Plastic Water Line Map.	If this pathw	vay must be e	evalua	ted, ched	ck the box a	t the left and բ	provide the
Bedrock Pathway Assessment Atta [] A. Justification for Bedrock Type [] B. Hydrogeologic Cross-section [] C.		ved Solids Ta	ible(s)	E	X	TEH - D	TEH - WO
 [] 2. GW Ingestion - Potential Map [] 3. Soil Gas Plume Map [] 7. GW to Plastic Water Line Map [] 8. Surface Water Map [] 9. Soil Leaching Map 							
[] 10. Soil Vapor Map [] 11. Soil to Plastic Water Line Map							
Other Maps: [] 12. Groundwater Summary Company Company Company Corrective And Soil Summary Corrective And Soil Summary Corrective And Soil Summary Corrective And Soil Summary Corrective And Soil Soil Soil Soil Soil Soil Soil Boring Logs/Mon. Well Company Corrective And Soil Soil Boring Logs/Mon. Well Correction Soil Soil Soil Soil Soil Soil Soil Soil	Action Map Site Map) h/Length Map romatograms oil Vapor Mor Construction I drinking wate	o n. Wells Diagrams er wells)		20. ☐ So 21.☐Gro 22. Grou 23. Well 24. Encl 25. Surfa 31. Tier [] Page [] Appe [] Appe [] Appe	oil Contamir bundwater Coundwater Floo Survey Majosed Space ace Water Manual Selected I es 5, 6 and 1 endix 1 - Topendix 4 - Fie 11 - Tank T	and Conduit l	Map Plume Map flap Map ort Body Map Map Map Map Results
 [] 32. Corrective Action Document [] Declaration of Restrictive Co [] Abandoned Water Well Plught [] Water Supply (IDNR) / Design [] Report of Plastic Water Line [] Utility Company Notification [] Sanitary Sewer Notification [] Report of Excavation Activition Land Application Notification 	venants / Ins ging Record(gnated County Removal and es and, if app	stitutional Cor s) y Agent Notif d / or Reloca	icatior tion				

[] Computer Disk

TIER 2 DATA BEFORE MODELING

LUST#	
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Free Product Present?	Groundwater encountered?	SCR conversion?
TEH-diesel required?	TEH-waste oil required?	Bedrock:

Analytical Data							
Groundwater Maximums			Soil Maximums				
	Date	B/ MW #	Concentration (μg/L)		Date	B/ MW #	Concentration (mg/kg)
В				В			
Т				Т			
Е				E			
Х				Х			
TEH d				TEH d			
TEH wo				TEH wo			

Soil Gas	Benzene		Toluene		Ethylb	enzene	TEH d		
	Sampled Soil Gas	Result							
Soil Source									
Groundwater Source									

	Initial Receptor Evaluation						
Groundwater	Water supply well survey within 1,000 feet? Y / N						
IngestionActual	Drinking water wells within 1,000 feet? Y/N/L	J					
	Non-drinking water wells within 1,000 feet? Y	/N / U					
Groundwater	Protected groundwater source? Y / N	Maximum K: m/d					
IngestionPotential	Institutional control within 1,000 ft.? Y / N	Minimum TDS: mg/L					
Vapors	Explosive vapor levels during most recent investig	gation? Y / N					
	Institutional control within 500 feet? Y / N						
Plastic water lines	Shallowest depth to groundwater? feet						
	Plastic water line within 200 feet of source? Y/N/U						
Surface water	Designated use segment within 500 feet? Y/N/U	Designation(s):					
	Any surface water within 200 feet? Y/N	Pass visual inspection? Y/N					

	LUST No:
Site Name:	
Site Hydrogeo	logy
Flow / Migration Head gradient (i, ft/ft) Hydraulic conductivity (K, m/day) MAIN PLUME / FLOW (degrees) RANGE of Plume / FLOW (degrees) Upgradient (fraction) Source Dimensions Groundwater Plume Source Width (Sw - GW) (ft) Soil Plume Source Width (Sw - Soil) (ft)	
Groundwater Plume Source Length (W - GW) (ft) Soil Plume Source Length (W - Soil) (ft)	
Soil Parameters	<u>Default</u>
Fraction organic carbon (foc) (g-C/g-Soil) Total Porosity (Qt) (cm³/cm³-Soil) Soil bulk density (ps) (g/cm³-Soil)	0.01 0.3 1.86
waste oil required?". Justification must also be provided if answered "No" or anytime an answer given may not be obvious	
Site Hydrogeology Justification Section. Explain which poin f necessary for clarification, provide justification for the variable	

PRELIMINARY PATHWAY EVALUATION REQUIREMENTS

X = Evaluation Required (A receptor identification plume must be generated.)

Pathway	Receptor Type	В	Т	Е	Х	TEH _d	TEH _{wo}
Groundwater Pathways	•	•	•	•			
Groundwater Ingestion	Drinking Water Wells-DWW	1	1				
Groundwater ingestion	Nondrinking Water Wells- NDWW						
	Protected Groundwater Source-PGWS						
	Protected Groundwater Source-PGWS						
Groundwater Vapor to	Confined Space Residential-CSR						
Enclosed Space	Confined Space Nonresidential-CSNR						
	Sanitary Sewer Residential-SSR						
	Sanitary Sewer Nonresidential-SSNR						
Consum divintanta			1	1	1		
Groundwater to Plastic Water Line	Plastic Water Lines (PWL)						
Surface Water	DU-Cold Water-B(CW)						
Surface Water	DU-Warm Water-B(WW)						
	DU-Limited Resources-B(LR)						
	DU-Lakes & Wetlands-B(LW)						
	DU-Drinking Water-C						
	AT-All Surface Water						
	AT-Ponds & Lakes						
	State-Owned Lake						
	State Owned Earle				1		
Soil Leaching Pathways			_	1			
Soil Leaching to	Drinking Water Wells-DWW						
Groundwater Ingestion	Nondrinking Water Wells-NDWW						
	Protected Groundwater Source-PGWS						
Soil Leaching to	Confined Space Residential-CSR						
Groundwater Vapor	Confined Space Nonresidential-CSNR						
to Enclosed Space	Sanitary Sewer Residential-SSR						
to Endedda Gpadd	Sanitary Sewer Nonresidential-SSNR						
	, , , , , , , , , , , , , , , , , , , ,						
Soil Leaching-Groundwater	Plastic Water Lines (PWL)						
to Plastic Water Line	Tiastic Water Lines (TWL)						
Soil Leaching to	DU-Cold Water-B(CW)		1				
Surface Water							
Surface Water	DU-Warm Water-B(WW) DU-Limited Resources-B(LR)						
	DU-Lakes & Wetlands-B(LW)						
	` ,						
	DU-Drinking Water-C AT-All Surface Water						
	AT-All Surface Water AT-Ponds & Lakes						
	State-Owned Lake						
	State-Owned Lake		<u> </u>	<u> </u>			
Other Soil Pathways			1	1			
Soil Vapor to	Confined Space Residential-CSR						
Enclosed Space	Confined Space Nonresidential-CSNR						
	Sanitary Sewer Residential-SSR		1				
	Sanitary Sewer Nonresidential-SSNR						
Soil to Plastic Water Line	Plactic Water Lines (PWI)						
Soil to Flastic Water Line	Plastic Water Lines (PWL)		I				

Pathway Groundwater ngestion— Actual Groundwater ngestion— Potential	Name	A	P	В	Gro T	up 1 E	Х	TI D	EH		Action(s)	Risk	Tie	
Groundwater ngestion— Actual Groundwater ngestion—	Name	A	P	В	Т	Е	Χ	٦						
ngestion— Actual Groundwater ngestion—							,,	ט	W	С	Completed		3	
Actual Groundwater ngestion—														
Actual Groundwater ngestion—														
Groundwater ngestion—														
ngestion—														
ngestion—													1	
ngestion—														
Potential														
Oteritiai														
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Groundwater										\sqcup			<u> </u>	
√apor To														
Enclosed Space														
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Soil Vapor to														
Enclosed Space													-	
_nciosed Space													-	
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Groundwater														
To Plastic														
Water Line														
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Soil To Dioctio													 	
Soil To Plastic			 	1	-	-				$\vdash \vdash \vdash$			├	
Water Line			<u> </u>	 	<u> </u>	<u> </u>				$\vdash \vdash \downarrow$			 	
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<u> </u>			<u> </u>		<u> </u>	<u> </u>				\sqcup			<u> </u>	
<u> </u>													<u> </u>	
Surface Water				L				L					L	

TIER 2 RECEPTOR SUMMARY (continued)

5. Notified sanitary sewer public authority

7. Relocated plastic water lines

8. Replaced plastic water lines

6. Notified utility company-plastic water line

9. Established institutional controls

10. Conducted soil excavation

11. Cleared with soil gas

1. Plugged drinking water wells

2. Plugged non-drinking water wells3. Notified IDNR Water Supply Section

4. Notified designated county authority

Pathway	Receptor						H/L				Corrective	Current	То
						up 1		TE	EΗ		Action(s)	Risk	Tier
	Name	Α	Р	В	Т	Е	Χ	D	W	С	Completed		3
Soil Leaching To													
Groundwater													
		-											\vdash
Corrective Actions	<u>. </u>								<u> </u>				

- Corrective Actions:
 1. Plugged drinking water wells
- 2. Plugged non-drinking water wells
- 3. Notified IDNR Water Supply Section
- 4. Notified designated county authority
- 5. Notified sanitary sewer public authority
- 6. Notified utility company-plastic water line
- 7. Relocated plastic water lines
- 8. Replaced plastic water lines
- 9. Established institutional controls
- 10. Conducted soil excavation
- 11. Cleared with soil gas

Corrective Action Summary:

Sampling Results:

Field Screening Results

Complete the table below with the field screening results for each boring, monitoring well, and probe point location. In the first column provide the depth increments over which vapor screening was conducted beginning with the ground surface. Label the increments and total depth of boring in units of feet from the ground surface. Place an asterisk (*) at the depth on each column for every soil sample analyzed. Place a water level symbol (v) at the depth on each column to represent the static water level. This page may be duplicated for additional sampling points.

Sample Identification		mple			
Date Sampled	10/2	23/96			
Depth of Reading -	depth				
- Ground Surface	0	0			
-	1'	0			
	2	10			
	3	21			
	4	25			
	5	24			
	6	29			
	7	90			
	8	120			
	9	*400			
	10	v300			
	11	180			
	12	20			
	13	0			
	14	0			
	15	0			
Total Depth of Boring	15'				

Soil Boring and Monitoring Well Placement. Describe soil and groundwater sampling methods. Explain why those samples selected for laboratory analysis represent the highest contamination concentrations encountered during soil boring / monitoring well installation. Explain why the source(s) has been adequately investigated. If groundwater samples were obtained from wells with free product, describe the method used to collect the samples.

					Soil Anal	ytical Dat	a (mg/kg)					
Boring/	Date	Ele	evations (AS	SL)		Gro	up 1		Gro	up 2		
Well #	Sampled	Ground Surface	Sample Depth	SWL	В	Т	E	Х	TEH-D	up 2 TEH-WO	Naph.	TPH
MW9999	99/99/99	9999.99	9999.99	9999.99	999,999	999,999	999,999	999,999	999,999	999,999	999,999	999,999
	00 00 00											

					Groun	dwater .	Analytica	al Data (μ g/L)					
Boring/	Date		Elevatio	ns (ASL)			Gro	up 1	, ,	Gr	oup 2		FP	FP
Well #	Sampled	Ground	TOC	TOS	SWL	В	Т	E	Х	TEH-D	TEH-WO	Naph.	Туре	Default?
											-		71	
MW999	99/99/99	9999.99	9999.99	9999.99	9999.99	999,999	999,999	999,999	999,999	999,999	999,999	99,999	WO	YES
	30,00,00	3333.33	0000.00	0000.00	0000.00	000,000	333,333	000,000	333,333	333,333	000,000	00,000	G	NO
													D	Y
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			Soil Gas A	nalytical Data			
	the table below with hronologically with the			ch vapor sampling	point. Group sa	mpling events b	y location then
Sample	Receptor	Date		ns (feet Above S	ea Level)	Benzene	Toluene
Label	Evaluated	Sampled	Ground	Soil Vapor	Static	(μg/m³)	$(\mu g/m^3)$
			Surface	Sample	Groundwater		
	Sampling Method						
	why the methods		esentative sam	ples. Attach o	construction dia	grams for eac	ch soil vapor
monitorir	ng well (Appendix 2	7).					
0-11-0-			- Caralaia				- 1
	s Sampling Locating the identified actu			why the locati			
	nd whether the sour						

	ı	Indoor Vapor	Analytical Da	nta		
Complete the table below with by location then arrange chrone				pace receptor sar	npled. Group sa	ampling events
Receptor	Date		ns (feet Above S	ea Level)	Benzene	Toluene
Evaluated	Sampled	Ground	Basement	Static	(μg/m ³)	(μg/m ³)
_ : 3:3333	Jan., p. 10 d.	Surface	Floor	Groundwater	(μg/ /	(μg/)
Indoor Vapor Sampling. It why the methods provide re		sample.			npling method:	s and explain
		Groundwa	ter Elevations	i		
Identify the methodology a measurements or fluctuation gradient or flow direction.						
Describe the benchmark use	ed to survey f	or groundwate	r surface elevati	ons, including its	s location and	elevation.
	·	-		J		
If water levels were correct static water level.	ed due to th	e presence of	free product, d	escribe the met	hod used to d	determine the

RECEPTOR SURVEY:

	Gr	oundwat	er Well S	Survey				
Well Number as identified on Groundwater Well Survey Map								
Well Status								
Active	[]	[]	[]	[]	[]	[]	[]	[]
Abandoned	[]	[]	[]	[]	[]	[]	[]	[]
Plugged	[]	[]	[]	[]	[]	[]	[]	[]
According to Chapter 39	[]	[]	[]	[]	[]	[]	[]	[]
Not according to Chapter 39	[]	[]	[]	[]	[]	[]	[]	[]
Well Use								
Municipal Well	[]	[]	[]	[]	[]	[]	[]	[]
Private Drinking Well	[]	[]	[]	[]	[]	[]	[]	[]
Production Well	[]	[]	[]	[]	[]	[]	[]	[]
SIC Code								
Other:	[]	[]	[]	[]	[]	[]	[]	[]
Other:	[]	[]	[]	[]	[]	[]	[]	[]
Static Water Level Elevation								
Well Depth Elevation								
Well Diameter								
Casing Material								
Screened Interval								
Well Log Provided? Yes	[]	[]	[]	[]	[]	[]	[]	[]
No	[]	[]	[]	[]	[]	[]	[]	[]
Well owners and locations. Prov	ide the na	me and ac	dress of e	ach well o	wner.	•	•	<u>•</u>
Well Number - Well Owner Name		Address	3		City		State 2	Zip Code
Public Entities. Provide the nam details. Indicate the date each pub				entity cor	tacted to	determine	e well loca	tions and
Plugging Methods. Describe the	plugging n	nethod for	those well	s not seal	ed accordi	ng to Cha	apter 567-3	9 IAC.

AFFECTED PROPERTY OWNER TABLE

List all properties within any Receptor ID Plume and under the "Z" (zoning) column, provide the zoning for each property with either "R" for residential or "NR" for nonresidential; mark "Y" or "N" regarding whether that property owner was contacted to determine if there is a drinking or non-drinking water well on their property; and provide the date the property owner was contacted. This page may be duplicated.

	Z	Property Owner Name	Property Address	Owner Mailing Address
1				
		Contacted? Y / N Date: / /	-	
2		Contacted: 1710 Date: 77		
		Contacted? Y / N Date: / /		
3				
		Contacted? Y / N Date: / /	7	
4				
		Comtacted 2 V/N Detail / /	_	
5		Contacted? Y / N Date: / /		
		Contacted? Y / N Date: / /		
6				
		Contacted? Y / N Date: / /	-	
7				
		Contacted? Y / N Date: / /	_	
8		Contacted? 17 N Date. 77		
		Contacted? Y / N Date: / /		
9				
		Contacted? Y / N Date: / /		
10				
		Contacted? Y / N Date: / /	-	
11		Contacted: 1/19 Date. //		
40		Contacted? Y / N Date: / /		
12				
		Contacted? Y / N Date: / /		

Well Survey / Contact Method. Identify the method (on-site well survey or letters) for surveying the area within 300 feet of the sources or within the largest receptor identification plume (whichever is smaller). If letters were sent, provide a copy of the letter in Appendix 23 and state how many letters were sent and how many replies were received.

COMMINGLED PLUME DISCUSSION
If contamination at the site appears to be commingled with another site provide the owner name and address, and if assigned by the IDNR, the Registration and LUST numbers. If the site does not have a Registration or LUST number, provide justification for an off-site source in the section below.
OFE SITE CONTAMINATION SOURCE SURBORT DISCUSSION
OFF-SITE CONTAMINATION SOURCE SUPPORT DISCUSSION Provide a detailed justification for any conclusions concerning off-site contamination sources.
Free Product
Indicate whether free product has ever been observed at the site and in which wells. If the site has a history of free product, indicate the date the last "Free Product Recovery Report" was submitted. Discuss the status and effectiveness of the free product recovery system.

		Enclose	d Space / Co	onduit Su	rvey		
Conduit Number (on map)	Description (main or service?)	Construction Material	Conduit Backfill Material	Slope of Conduit	Burial Depth	Relationship to Groundwater Level	% LEI
Example 1	Sanitary Sewer Main - 1st & Main accessway	concrete	sand	west	5 feet below surface	2 feet above groundwater	7
Example 2	Basement of Smith residence	cement	NA (Not applicable)	NA	base 8 feet below ground	1 foot below groundwater	33
Example 3	On-site Water Service	PVC	gravel	south	5 feet below surface	2 feet above groundwater	NA
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Survey contacts. Provide the name and address for each public entity and adjacent property owner contacted to determine enclosed space and conduit details and locations. Provide the date of the most recent enclosed space / conduit survey.

Vapor History. Describe any historic and current problems with vapor accumulation in confined spaces. Indicate the date(s) and where vapors were noted. Describe the measures taken to abate the condition and the current status.

	Sur	face Water Su	ırvey
Surface Water Name	Classification - designated or general use	Description	Visual Observations
Example 1 - Red River	designated A, B(WW)	river	no sheens or residue observed
Example 2 - no name	general use	drainage ditch to the east	Residues noted on bank. Appeared to be non-petroleum. Lab data confirmed no hydrocarbons.

Surface Water Sampling Analytical Data (μg/L) (This previously collected data may not be used to clear the surface water pathway)							
Sample	Date	Group 1			Group 2		
Location	Sampled	В	Т	Е	Х	TEH-D	TEH-WO

Surface Water Survey. Explain how the surface water survey was conducted. If surface water samples were collected, describe the sampling methods. Provide a justification for taking samples.
3 to 100 g t

RISK JUSTIFICATION AND CORRECTIVE ACTION PROPOSED:

Groundwater Vapor to Enclosed Space Pathway Groundwater to Plastic Water Line Pathway Surface Water Pathway	Groundwater Ingestion Pathway
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
Groundwater to Plastic Water Line Pathway	
	Groundwater Vapor to Enclosed Space Pathway
Surface Water Pathway	Groundwater to Plastic Water Line Pathway
Surface Water Pathway	
	Surface Water Pathway

MONITORING PLAN:

Soil Gas Monitoring Plan Comments/Justification	

So	oil Gas Monitoring Plan Summ	nary Table
Location	Receptor	Frequency

Froundwater	Monitoring Plan	Chem	nical:			
Location	Measured Concentration	SSTL Concentration	Receptor Name	Type of Receptor	Minimum Frequency	
				•		
	<u> </u>					
	Monitoring Plan			Chemical:		
Location	Measured	SSTL	Receptor Name	Type of	Minimum Frequency	
	Concentration	Concentration		Receptor		
	Ground	water Monitorin	ng Plan Commen	ts/Justificatio	n	
			-			